



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/631,917	07/30/2003	Stephen D. Dentel	200205812-1	9623
22879	7590	06/29/2005	EXAMINER	
HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			DO, AN H	
			ART UNIT	PAPER NUMBER
			2853	

DATE MAILED: 06/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary

Application No.

10/631,917

Applicant(s)

DENTEL ET AL

Examiner

An H. Do

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 7/30/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 30 July 2003 was filed and is being considered by the examiner.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-11 and 16-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Bolash et al (US 6,151,041).

Bolash et al disclose in Figures 5-7 the following claimed features:

Regarding claims 1, 9, 10, 16, 23 and 24, a system (Figure 7) for altering a function of a printing device (printer), the system comprising:

-a printing device (printer) having a cartridge slot (Figure 7, carrier locations 58, 60, 62) configured to receive any of a plurality of different cartridge types (Figure 7, cartridge types A, B, C);

-a computing device including a processor (Figure 7, processor 56), wherein the processor (56) is linked to the printing device (printer) and is configured to control operation of the printing device; and

-first instructions (header information, column 9, lines 45-46) loadable on the computing device (processor 56), wherein the first instructions are specific for a first

Art Unit: 2853

cartridge type (cartridge type A) and control operation of a first cartridge (70) of the first cartridge type when the first cartridge (70) is disposed in the cartridge slot (58) of the printing device (column 9, lines 45-64).

And also therefore teaches a method of changing a function of a printing device in view of the fact that the above structure is taught.

Regarding claim 2, further comprising: second instructions loadable on the computing device, wherein the second instructions are specific for a second cartridge type (cartridge type B) and control operation of a second cartridge (72) of the second cartridge type when the second cartridge is disposed in the cartridge slot of the printing device; wherein the first instructions are different than the second instructions; and wherein the first cartridge type is different than the second cartridge type (column 9, lines 51-64).

Regarding claims 3 and 25, wherein the first instructions are non-specific to the printing device, the system further comprising a printing device driver configured to translate cartridge-specific instructions to printing-device-interpretable instructions (column 7, lines 34-48).

Regarding claims 4 and 5, wherein the first instructions are resident in memory (printer memory 76) on the computing device.

Regarding claim 6, wherein the computing device (56) is integrated within the printing device (Figure 7).

Regarding claim 7, wherein the first instructions are configured to provide user-selectable options regarding the use of the first cartridge type (column 10, lines 5-14).

Regarding claims 8, 11 and 18, wherein the different cartridge types may be selected from a group consisting of a coating cartridge, a specialty ink cartridge and a craft cartridge (column 5, lines 12-22).

Regarding claim 19, a program storage device (Figure 7, printer memory 76) readable by a machine (printer), the storage device (76) tangibly embodying a program of commands executable by the machine to: identify a cartridge (70, 72, 74) operably disposed in a printing device as being configured to produce a desired specialty effect; and direct operation of the cartridge (70, 72, 74) by sending cartridge-operation instructions from a processor (56) to the printing device to produce the desired specialty effect on a medium as the medium is advanced through the printing device (column 9, lines 45-64).

Regarding claim 20, wherein the cartridge-operation instructions are specific to the identified cartridge (column 9, lines 45-51).

Regarding claim 21, wherein the commands executable to identify a cartridge (70, 72, 74) disposed in a printing device including commands executable to identify a cartridge type of the cartridge from a plurality of different cartridge types, and where the different cartridge types are selected from a group consisting of a specialty coating cartridge, a specialty ink cartridge and a specialty craft cartridge (column 5, lines 12-22).

Regarding claim 22, further comprising commands executable to provide options to a user regarding operation of the cartridge and application of a specialty effect to a medium (column 10, lines 5-14).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable Bolash et al (US 6,151,041) in view of Specht (US 5,613,625).

Bolash et al disclose the claimed invention except for reciting the effect based on the type of cartridge is a specialty olfactory effect.

Specht teaches the effect based on the type of cartridge is a specialty olfactory effect (claim 2).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the effect based on the type of cartridge is a specialty olfactory effect, as taught by Specht into Bolash et al, for the purpose of obtaining olfactory materials such as fragrances or deodorizers.

6. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable Bolash et al (US 6,151,041) in view of Payne (US 6,273,661).

Bolash et al disclose the claimed invention except for reciting the specialty craft effect includes dispensing glue on the medium.

Payne teaches the specialty craft effect includes dispensing glue on the medium for the purpose of binding the media (column 1, lines 50-51).

Art Unit: 2853

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the specialty craft effect includes dispensing glue on the medium, as taught by Payne into Bolash et al, for the purpose of binding the media (column 1, lines 50-51).

7. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable Bolash et al (US 6,151,041) in view of Sato et al (US 5,933,164).

Bolash et al disclose the claimed invention except for reciting the specialty coating cartridge includes dispensing a protective coating on a medium.

Sato et al teach the specialty coating cartridge includes dispensing a protective coating on a medium for the purpose of providing high quality images free of any bleeding (column 2, lines 19-20).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the specialty coating cartridge includes dispensing a protective coating on a medium, as taught by Sato et al into Bolash et al, for the purpose of providing high quality images free of any bleeding (column 2, lines 19-20).

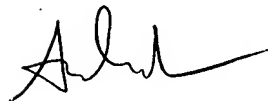
Contact Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to An H. Do whose telephone number is 571-272-2143. The examiner can normally be reached on Monday-Friday (Flexible).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen D. Meier can be reached on 571-272-2149. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2853

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'An H. Do', with a stylized, flowing script.

An H. Do
June 21, 2005